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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/069,522	05/29/2002	Shogo Ishioka	020239	9372
23850	7590 07/30/2003			
ARMSTRONG, WESTERMAN & HATTORI, LLP 1725 K STREET, NW SUITE 1000 WASHINGTON, DC 20006			EXAMINER	
			LAIR, DONALD M	
			[
			ART UNIT	PAPER NUMBER
			2858	
		•	DATE MAILED: 07/30/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

			UW				
•	_	Application No.	Applicant(s)				
Office Action Summary		10/069,522	ISHIOKA ET AL.				
		Examiner	Art Unit				
		Donald M. Lair	2858				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)	Responsive to communication(s) filed on	<u> </u>					
2a) <u></u> □	This action is FINAL . 2b)⊠ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
·	on of Claims						
•	Claim(s) 1-8 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
·	Claim(s) is/are allowed.						
•	Claim(s) <u>1-8</u> is/are rejected.						
·	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers							
	•	r					
9) The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 29 May 2002 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)[☑ All b)☐ Some * c)☐ None of:						
,	1.⊠ Certified copies of the priority document	s have been received.					
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
 a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:							

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Takahashi (US-6,097,202).
- 3. In regards to Claim 1, Takahashi discloses an inspection apparatus for inspecting a circuit wiring on a circuit board comprising a supply means for supplying an electric signal to one of the ends of a circuit wiring and varying a voltage in the circuit wiring (Fig. 1, element 46), sensor means including a plurality of sensor elements arranged in an array (Fig. 1, element 50), each of the sensor elements being adapted to generate an inspection signal in response to voltage variation of a conductor adjacent thereto (Column 4, lines 47 56), sensor element select means for selecting at least one sensor element adjacent to the other end of the circuit wiring among the plurality of sensor elements (Fig. 1, element SW2), and output means for outputting the inspection signal from the selected sensor element (Fig. 1, elements SW2 and 48).
- 4. In regards to Claim 2, Takahashi discloses an apparatus comprising the elements described above, wherein the supply means is adapted to supply the electric signal to selected one of a plurality of circuit wirings on the circuit board (Fig. 8; Column 4, lines 34 42), the sensor element select means is adapted to select all of the sensor elements adjacent to respective ends of the plurality of circuit wirings (Fig. 7B; Column 4, lines 47 56), and when the

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inspection signal is generated in at least one of the sensor elements selected by the sensor element select means, the output means is adapted to output the inspection signal (Fig. 1, elements SW2 and 48).

- 5. In regards to Claim 3, Takahashi discloses an apparatus comprising the elements described above, wherein the sensor element select means includes a first switching means for controlling the connection between each of the sensor elements and the ground, and a second switching means for controlling the connection between each of the sensor elements and the output means (Figs. 1 and 7b).
- 6. In regards to Claim 4, Takahashi discloses an apparatus comprising the elements described above, further comprising detecting a disconnection in the circuit wiring according to the inspection signal output from the output means (Column 2, lines 10 20).
- 7. In regards to Claim 5, Takahashi discloses an apparatus comprising the elements described above, wherein the inspection apparatus is adapted to be disposed opposed to the circuit board (Fig. 1).
- 8. In regards to Claim 6, Takahashi discloses an apparatus comprising the elements described above, further comprising a universal tester adapted to be connected to the plurality of inspection apparatuses (Fig. 1).
- 9. In regards to Claim 7, Takahashi discloses a method for inspecting a circuit wiring on a circuit board by using sensor means including a plurality of sensor elements arranged in an array, each of the sensor elements being adapted to generate an inspection signal in response to voltage variation of a conductor adjacent thereto, the inspection method comprising the steps of supplying the electric signal to one of the ends of the circuit wiring and varying a voltage in the

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circuit wiring (Fig. 1), selecting at least one sensor element adjacent to the other end of the circuit wiring among the plurality of sensor elements (Fig. 1), and detecting a disconnection in the circuit wiring according to an signal output from the sensor element selected in the step of selecting at least one sensor element (Column 2, lines 10 - 20).

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In regards to Claim 8, Takahashi discloses an method comprising the steps described 10. above, wherein a plurality of circuit wirings on the circuit board are simultaneously inspected by arranging the sensor means in the plural number (Figs. 1 and 7b).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donald M. Lair whose telephone number is (703) 305-4450. The examiner can normally be reached on Monday - Friday, 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le can be reached on (703) 308-0750. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1436.

Donald M. Lair Patent Examiner

Art Unit 2858

July 23, 2003

N. Le

Supervisory Patent Examiner Technology Center 2800